Claims

1. Device for storing goods, in particular vehicles, the goods being stored on at least one platform and the platform being guided on guides traversable over a traverse path, means being provided for traverse and the platform being secured against undesired movement by means of a co-operation of safety means arranged at the guide or device and platform, the safety means being indicated by at least one locking unit (3) and at least one locking element (6), **characterised in that** the locking unit (3) is rotatable and supported in such a way that the center of gravity of the locking unit (3) is located off-center, so that the locking unit (3) is in continuous active connection with the locking element (6) as long as no power acting against the gravity is brought into the locking unit (3).

2. Device according to claim 1, **characterised in that** the safety means secure the platform against undesired downward movement.

3. Device according to claim 1, **characterised in that** the safety means can be arranged along the total traverse path of the platform (1) against the guide (2) on each position in active connection in order to interrupt the movement of the platform (1).

4. Device according to claim 1, **characterised in that** the locking unit (3) is arranged on the platform (1) and the locking element (6) is arranged on at least one of the guides (2).

5. Device according to claim 1, **characterised in that** the locking element (6) is arranged on the platform (1) and the locking unit (3) is arranged on at least one of the guides (2).

6. Device according to claim 1, **characterised in that** the locking element (6) is indicated by a gear rack.

7. Device according to claim 1, **characterised in that** a notch is provided as locking unit (3).

8. Device according to claim 1, **characterised in that** the side of the notch which faces the locking element (6) has at least one tooth designed in such a way that it can engage positive interlocking into each indentation of the gear rack along the traverse path of the platform (1).

9. Device according to claim 1, **characterised in that** the locking unit (3) is held through the power of a power element, for example a spring, or because of the gravity in continuous active connection with the locking element (6), the locking unit (3) embracing an opening element (7) which acts against the effective direction of the power element, and which is activated only when the platform is moved along the guide.

10. Device according to claim 1, **characterised in that** in order to bring in the adjustment force the locking unit (3) comprises an opening element (7) and e. g. an electromagnet, electro-motor, a pneumatic or hydraulic cylinder, a spring, a manual or mechanic supported activated cable pull or chain hoist or the like is provided as opening element (7).

11. Device according to claim 1, **characterised in that** on the means to traverse (11) of the platform signal transmitters, like electric all-or-nothing relays, pressure sensors and/or speed sensors are arranged which co-operate with the opening element (7) in such a way that the actuating of the opening element (7), which is embraced by the locking unit (3), is blocked, respectively prevented, when the usual working conditions on the means for traverse (11) deviate.

12. Device according to claim 1, **characterised in that** the locking unit (3) is indicated by a design like a connecting link which is in continuous active connection with the locking element (6) and has an opening element (7) for opening the active connection.

13. Device according to claim 1, **characterised in that** the power which is effective against the power element is brought in by a means like cable (5), a chain or the like into the locking unit (3).

14. Device according to claim 1, **characterised in that** the locking unit (3) is arranged rotatably on the platform (1) and the opening element (7) is formed by a cable (5) and/or a chain guided over deflection rollers (8,9).

15. Device according to claim 1, **characterised in that** the opening element (7) acts through a cable (5) on the locking unit (3) and by means of that brings it out of the active connection with the locking element (6).

16. Device according to claim 1, **characterised in that** on the locking unit (3) at least one deflection, for example a deflection roller (8), is provided over which the cable (5) is guided in the shape of a "S".

17. Device according to claim 1, **characterised in that** the cable (5) is attached to the upper end of at least one of the guides (2), preferably to the upper end of a stationary column, and to the lower end of at least one guide (2) or to the floor.

18. Device according to claim 1, **characterised in that** the rotatably supported locking unit (3) is provided on the platform (1) and the locking element (6) designed as a gear rack is provided on the frame of the device, preferably on the stationary column, at least two deflection rollers (8) being provided on the locking unit (3), over which a cable (5) is guided which is attached to the upper end of the device and connected with the opening element (7), preferably an electromagnet, arranged on the floor or the lower end of the device, which then effects a movement, in particular a pull on the cable (5) when the opening element (7) is actuated, bringing a power which acts against the gravity into the locking unit (3) which turns the locking unit in such a way that it disengages from the locking element (6).

19. Device according to claim 1, **characterised in that** the cable (5) runs along the total traverse path of the platform over the deflection or the deflection rollers (8).

20. Device according to claim 1, **characterised in that** an actuating element (12) is provided for actuating the opening element (7) which is arranged in such a way that the operator can actuate this actuating element (12) from a safety area.

21. Device according to claim 1, **characterised in that** the locking unit (3) releases the platform (1) only when the actuating element (12) is actuated.

22. Device according to claim 1, **characterised in that** the cable or the cables (5) are attached to a corner or a wall of a building in which the device is arranged.

23. Device according to claim 1, **characterised in that** the cable or the cables (5), the gear rack (6) and the locking unit (3) are, if necessary, protected by a removable cover.

24. Device according to claim 1, **characterised in that** a frame where the cable or the cables (5) are arranged is provided on the device.

25. Device according to claim 1, **characterised in that** the locking unit (3) is indicated by a centrifugal brake which is actuated automatically, that is engages, by an adjustable speed which deviates from the normal traverse speed of the platform (1).

26. Device according to claim 1, **characterised in that** the safety means are brought into active connection by means of magnetic forces.

Patent Attorney